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A.D. 1844 . . . . . N° 10,250.

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S P E C I F I C A T I O N

OF

DANIEL STAFFORD.

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APPARATUS FOR VENTILATING AND  
CLOSING CHIMNEYS.

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L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,  
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

PUBLISHED AT THE QUEEN'S PRINTING OFFICE, EAST HARDING STREET,  
NEAR FLEET STREET.

1854.

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## Apparatus for Ventilating and Closing Chimneys.

### STAFFORD'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, DANIEL STAFFORD, of Grantham, in the County of Lincoln, Gentleman, send greeting.

WHEREAS Her present most Excellent Majesty Queen Victoria, by Her Letters Patent under the Great Seal of Great Britain, bearing date at Westminster, the Third day of July, in the eighth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Daniel Stafford, Her especial licence, full power, sole privilege and authority, that I, the said Daniel Stafford, my exors, admors, and assigns, or such others as I, the said Daniel Stafford, my exors, admors, or assigns, should at any time agree  
10 with, and no others, from time to time and at all times during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick upon Tweed, my Invention of "IMPROVEMENTS IN APPARATUS FOR PREVENTING WHAT IS TERMED SMOKEY CHIMNEYS OR FLUES, AND FOR THE EXTINCTION OF FIRE IN CHIMNEYS OR FLUES;" in  
15 which said Letters Patent is contained a proviso that I, the said Daniel Stafford, shall cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, to be inrolled in Her said Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said in part recited Letters Patent, as in  
20 and by the same, reference being thereunto had, will more fully and at large appear.



*Stafford's Improvements in Apparatus for Preventing Smoky Chimneys, &c.*

NOW KNOW YE, that in compliance with the said proviso, I, the said Daniel Stafford, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are fully described and ascertained in and by the following statement thereof, reference being had to the Drawing hereunto annexed, and to the figures and letters marked thereon 5 (that is to say):—

## DESCRIPTION OF THE DRAWING.

Figure 1 represents an external view of apparatus constructed according to my Invention for preventing what are called smokey chimneys. Figure 2 is a section thereof. Figure 3 is a transverse section; and Fig. 4 is a sectional plan thereof 10 taken thro' the dotted line A, B. *a* is the internal chimney pot, or internal part of the apparatus up through which the smoke proceeds, and the upper part of *a* rises considerably above the openings at *b* in the external apparatus *c*; the openings at *b* are all round the part *a*, hence there is free passage for the external air to pass into the interior of the apparatus *b*, and the air is guided 15 upwards by the form of the interior apparatus *a*. And it will also be seen that the exterior part *c* of the apparatus rises to a considerable height above the upper part of *a*; hence the currents of air entering at *b* will rise up through *c*, and produce an upward current, and be the means of a constant upward current in the apparatus *a*, and in the chimney to which it is applied. 20

I will now describe the second part of my Invention, which consists in building within a chimney and near the upper part thereof, a frame with a door opening downward, and this door, under ordinary circumstances, will remain open. *d* is the frame, which is to be built into a chimney, and near the upper part thereof. *e* is a door hinged to the frame, which opens inward and down- 25 ward, as shewn. *f* is a chain or other suitable means for raising the door at any time, such chain descending to the lower part of the chimney, and, in case of fire in the chimney, by closing the door, all draft upwards will be stopped, and the fire will quickly go out for want of air.

In witness whereof, I, the said Daniel Stafford, have hereunto set my 30 hand and seal, this Third day of January, in the year of our Lord One thousand eight hundred and forty-five.

DANIEL (L.S.) STAFFORD.



FIG. 1.

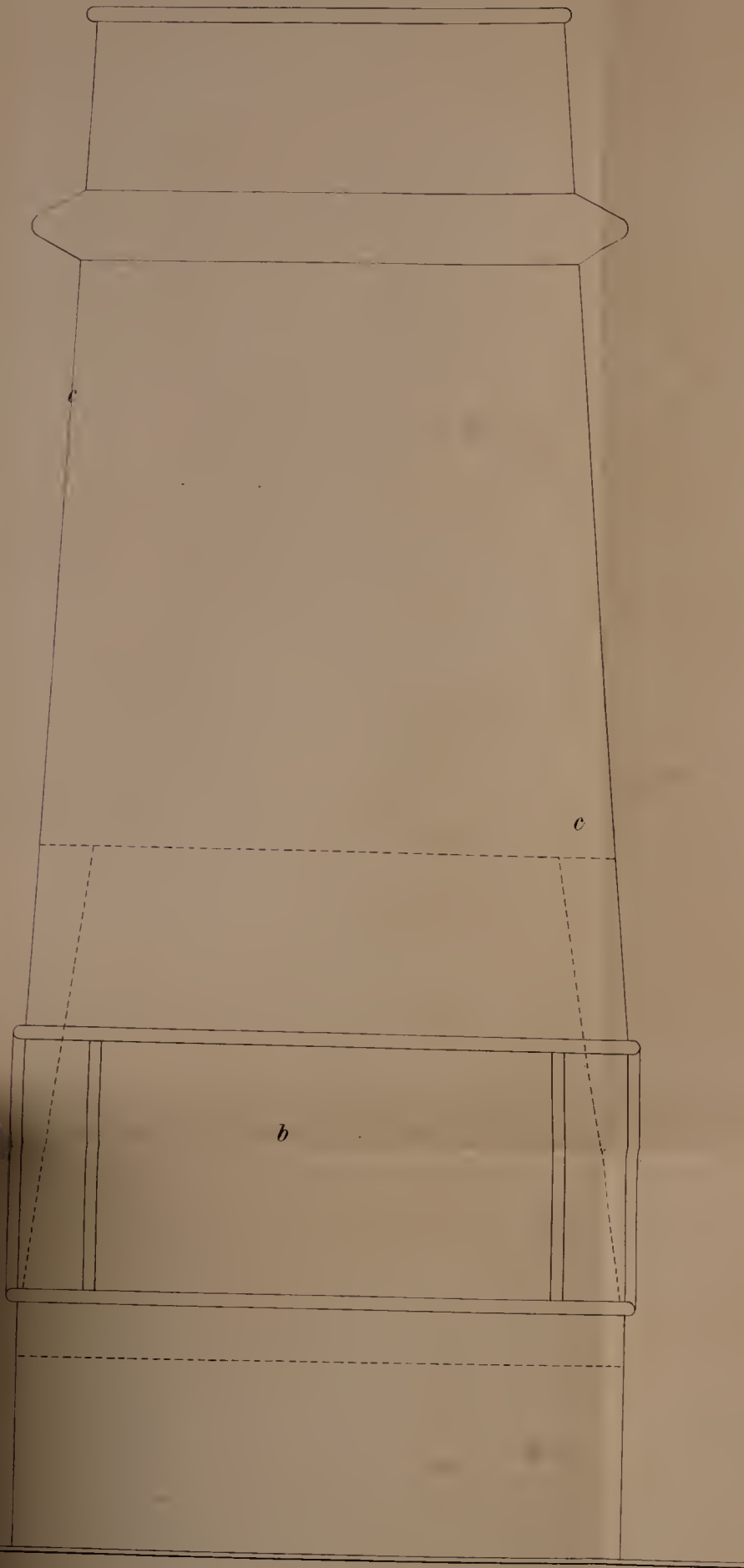


FIG. 2.

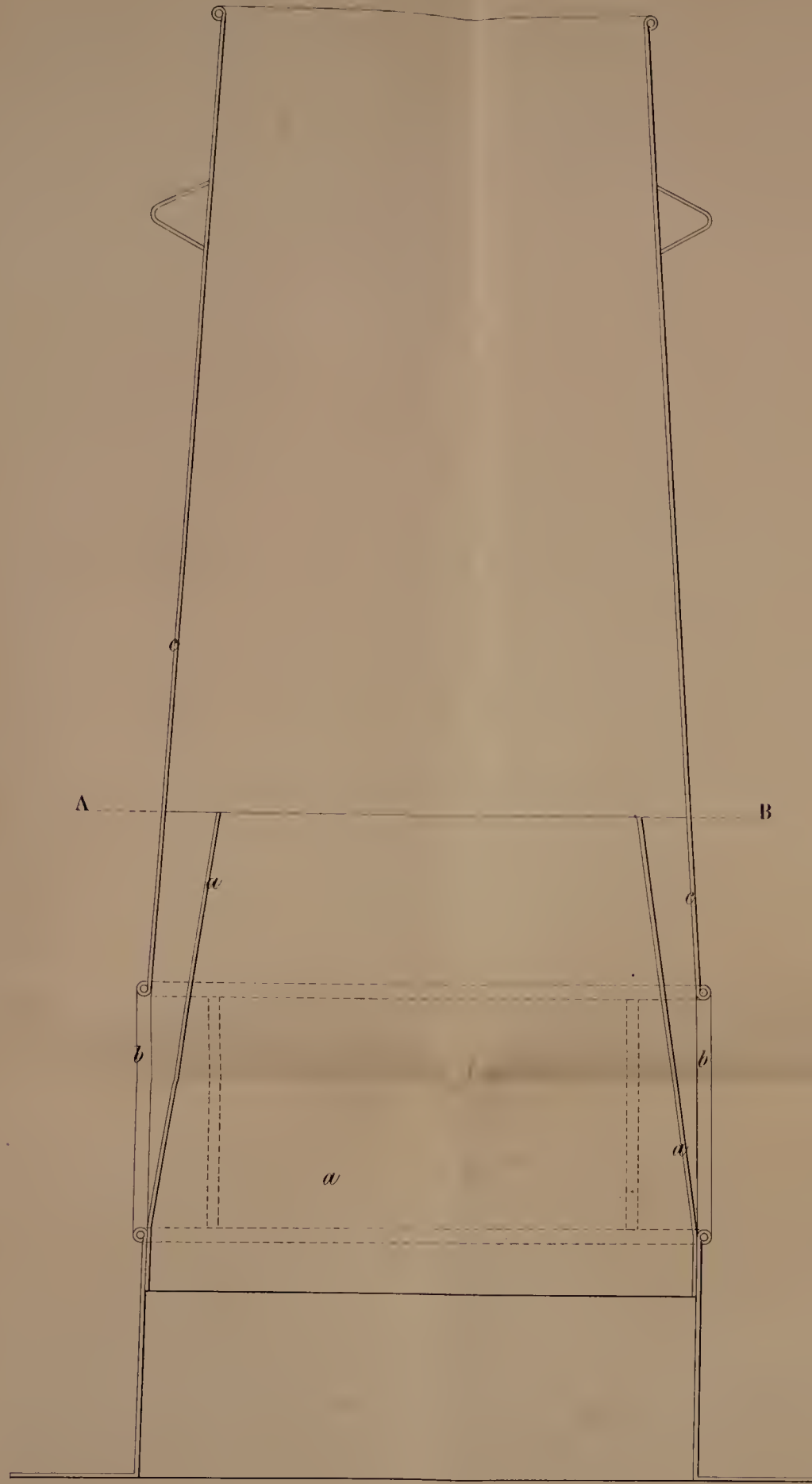


FIG. 3.

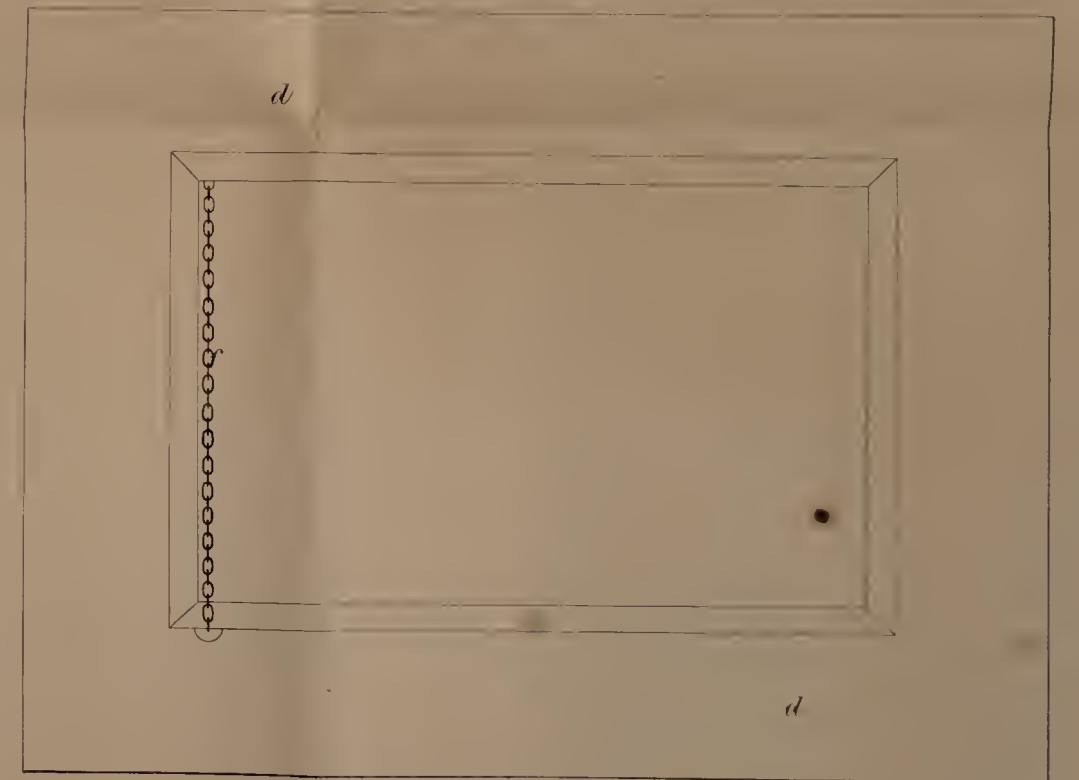
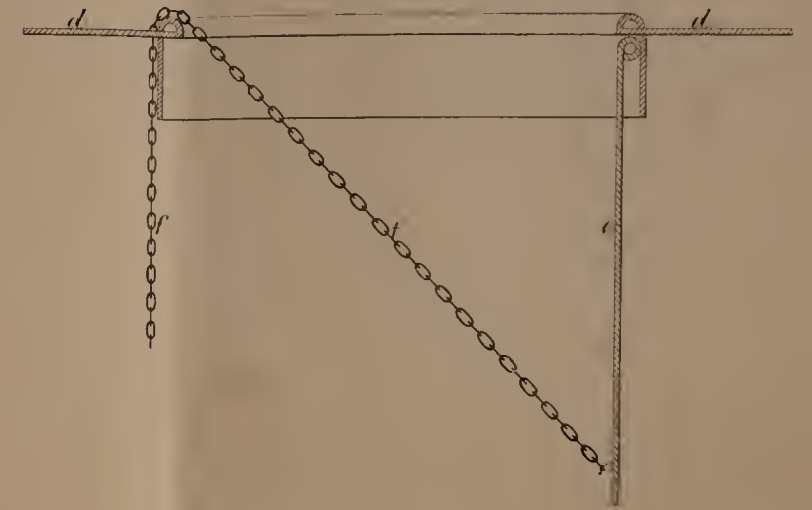
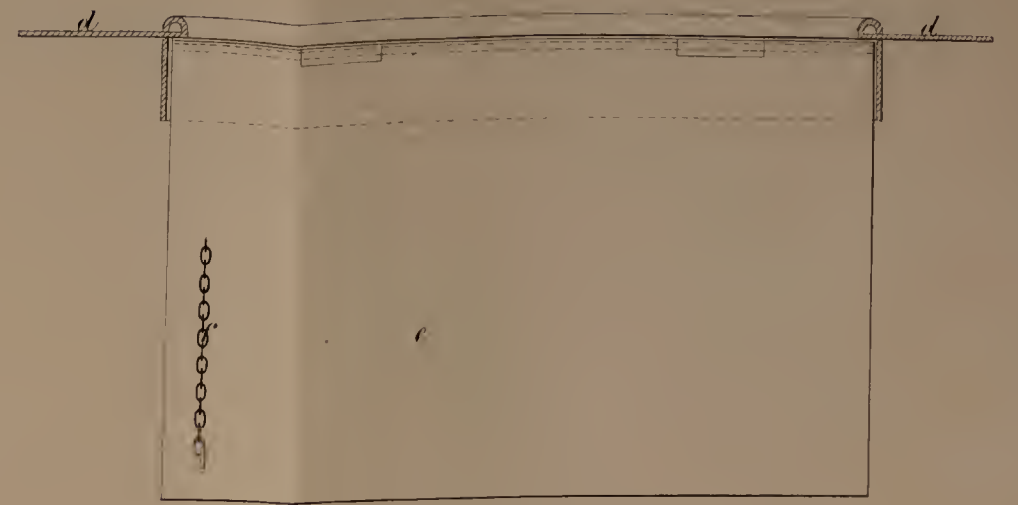
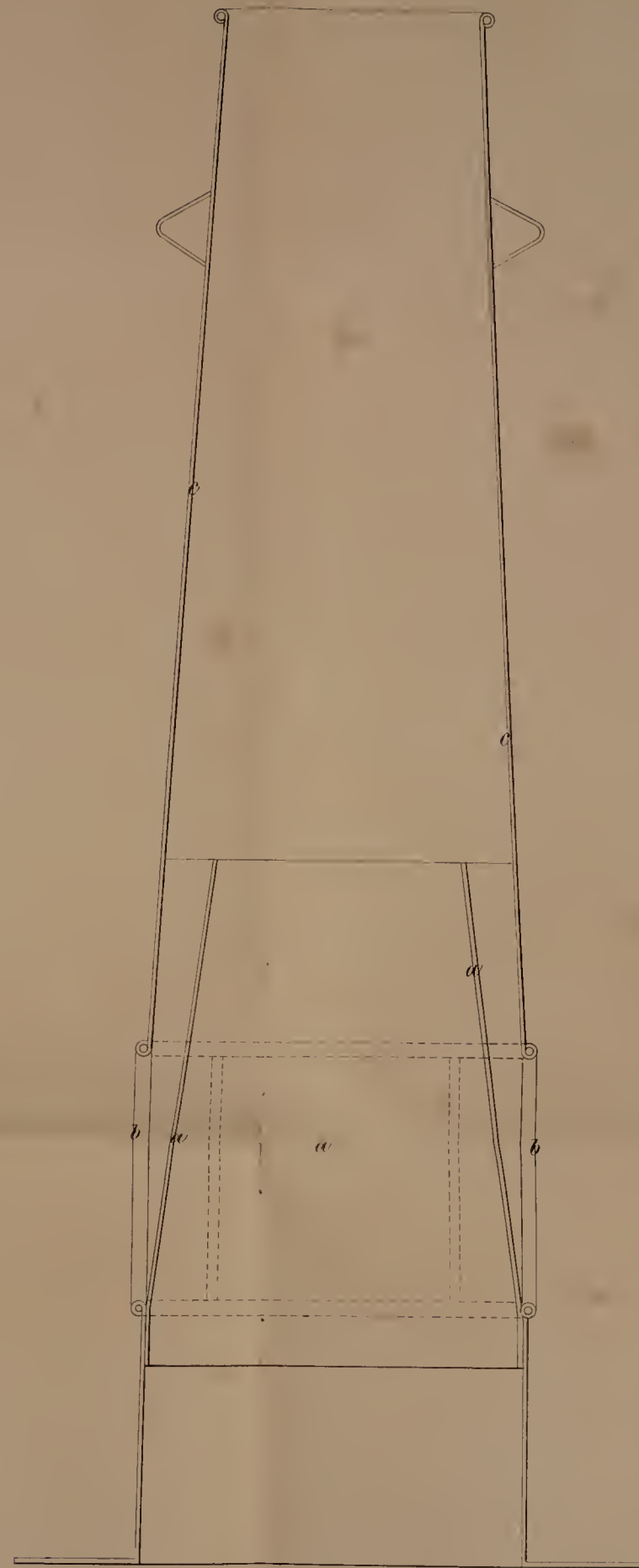
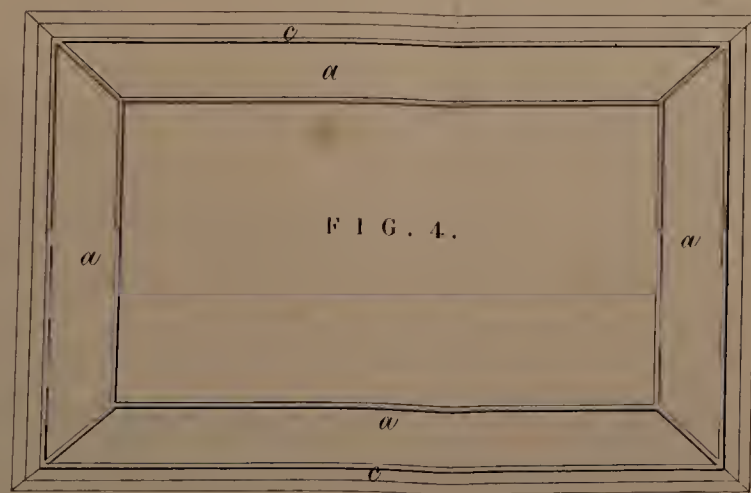


FIG. 4.



The Enrolled Drawing is colored.



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*Stafford's Improvements in Apparatus for Preventing Smoky Chimneys, &c.*

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AND BE IT REMEMBERED, that on the Third day of January, in the year of our Lord 1845, the aforesaid Daniel Stafford came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained and specified, in form above  
5 written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

ROSE.

Enrolled the Third day of January, in the year of our Lord One thousand eight hundred and forty-five.

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LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1854.

